



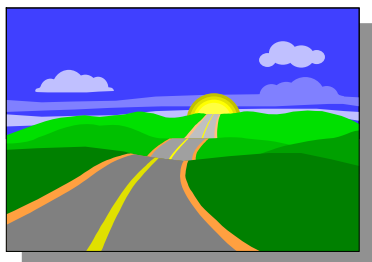
## **AN INTRODUCTION TO SAFETY CONSCIOUS PLANNING PRACTICE - Course Outline Day 1 – May 13, 2003**

<b>8:30 – 8:45</b>	<b>Introduction and Outline of Course</b>	
<b>8:45 – 9:30</b> <i>Session 1</i>	<b>Definitions of Safety</b> how to differentiate between safety and security collision counts and their randomness basic principles of safety engineering	<b>Geni Bahar</b>
<b>9:35 – 10:35</b> <i>Session 2</i>	<b>How to Measure Safety</b> reported and reportable collisions how to account for exposure how to use actual collision counts and determine expected frequency	<b>Geni Bahar</b>
<b>10:35 – 11:00</b>	<b>Break</b>	
<b>11:00 – 12:00</b> <i>Session 3</i>	<b>Safety Performance Functions Definitions and Applications</b> what are SPFs how to apply SPFs what is needed to develop SPFs	<b>Geni Bahar</b>
<b>12:00 – 1:00</b>	<b>Lunch</b>	
<b>1:00 – 2:00</b> <i>Session 4</i>	<b>Introduction to Human Factors</b> how human factors engineering started human characteristics that impact driving human factors causes of traffic collision: are bad drivers the problem?	<b>Alison Smiley</b>
<b>2:00 – 2:15</b>	<b>Break</b>	
<b>2:15 – 3:15</b> <i>Session 5</i>	<b>Driver Vision</b> foveal and peripheral vision, night adaptation acuity, contrast sensitivity, colour vision night visibility	<b>Alison Smiley</b>
<b>3:15 – 3:30</b>	<b>Break</b>	
<b>3:30 – 4:30</b> <i>Session 6</i>	<b>Driver Information Processing</b> driver attention, limitations in information processing visual search during driving	<b>Alison Smiley</b>



## **AN INTRODUCTION TO SAFETY CONSCIOUS PLANNING PRACTICE - Course Outline Day 2 – May 14, 2003**

<b>8:30 – 9:30</b> <i>Session 7</i>	<b>Speed and Safety</b>  relationship between speed and collision frequency relationship between speed and collision severity implications in standards and guidelines	<b>Geni Bahar</b>
<b>9:35 – 10:35</b> <i>Session 8</i>	<b>Driver Adaptation to the Road</b>  how drivers adapt response to safety countermeasures using adaptation to control speed ITS and adaptation	<b>Alison Smiley</b>
<b>10:35 – 11:00</b>	<b>Break</b>	
<b>11:00 – 12:00</b> <i>Session 9</i>	<b>Work Zones</b>  Accident statistics driver merging behavior signing and delineation speed control work zone case study	<b>Alison Smiley</b>
<b>12:00 – 1:00</b>	<b>Lunch</b>	
<b>1:00 – 2:00</b> <i>Session 10</i>	<b>Applying Accident Modification Factors</b>  the definition of AMFs the application of AMFs the development of AMFs	<b>Geni Bahar</b>
<b>2:00 – 2:15</b>	<b>Break</b>	
<b>2:15 – 2:45</b> <i>Session 11</i>	<b>SPF &amp; AMF Application for Case Study</b>  how to estimate the potential benefit for safety improvement how to calculate the expected safety after improvement how to assess the expected B-C ratio	<b>Geni Bahar</b>
<b>2:45 – 3:00</b>	<b>Break</b>	
<b>3:00 – 4:30</b> <i>Session 12</i>	<b>Accident Case Studies</b>  urban arterial: car/tractor trailer urban freeway: stopped vehicle urban arterial: car/motorcycle suburban arterial: pedestrian suburban arterial: child bicyclist urban arterial: emergency vehicle	<b>Alison Smiley</b>



**AN INTRODUCTION TO SAFETY CONSCIOUS PLANNING**  
**PRACTICE - Course Outline**  
**Day 3 – May 15, 2003**

<b>8:30 – 9:30</b> <b>Session 13</b>	<b>Human Factors Issues at Intersections</b> driver demands in intersections typical driver errors traffic signals and the dilemma zone pedestrian concerns	<b>Alison Smiley</b>
<b>9:30 – 10:40</b> <b>Session 14</b>	<b>Intersection Planning Choices and Safety</b> intersection density intersection layout and geometrics intersection traffic control devices	<b>Geni Bahar</b>
<b>10:40 – 11:00</b>	<b>Break</b>	
<b>11:00 – 11:45</b> <b>Session 15</b>	<b>Case Studies</b> urban intersection : teenage driver/ signal visibility urban arterial: car/motorcycle urban intersection: bicyclist	<b>Alison Smiley</b>
<b>11:45 - 12:00</b>	<b>Course Summary</b>	